STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL	
	1. WELL NAME and NUMBER Greater Monument Butte 15-16-9-16H
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** MONUMENT BUTTE
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME** GMBU (GRRV)
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY	**7. OPERATOR PHONE** 435 646-4825
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052	**9. OPERATOR E-MAIL** mcrozier@newfield.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-16532	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
	12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ◉
	19. SLANT VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ◉

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	926 FSL 1757 FEL	SWSE	16	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	926 FSL 1757 FEL	SWSE	16	9.0 S	16.0 E	S
At Total Depth	150 FNL 450 FEL	NENE	16	9.0 S	16.0 E	S

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 150	**23. NUMBER OF ACRES IN DRILLING UNIT** 320
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1361	**26. PROPOSED DEPTH** MD: 6171 TVD: 6171
27. ELEVATION - GROUND LEVEL 5918	**28. BOND NUMBER** B001834	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**	☑ **COMPLETE DRILLING PLAN**
☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**	☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
☑ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**	☑ **TOPOGRAPHICAL MAP**

NAME Mandie Crozier	**TITLE** Regulatory Tech	**PHONE** 435 646-4825
SIGNATURE	**DATE** 10/20/2010	**EMAIL** mcrozier@newfield.com

API NUMBER ASSIGNED
43013504420000

APPROVAL

Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	5.5	0	10183		
Pipe	**Grade**	**Length**	**Weight**			
	Grade N-80 LT&C	10183	17.0			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	8.625	0	1000		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	1000	24.0			

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 15-16-9-16H
SHL: SW/SE SECTION 16, T9S, R16E
BHL: NE/NE SECTION 16, T9S, R16E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,515'. Directional tools will then be used to build to 87.39° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD. An open hole packer system and sliding sleeves will be used to isolate separate frac stages in the lateral. The casing will be cemented from the top of the curve to surface with a port collar.

1. *GEOLOGIC SURFACE FORMATION:*

Uinta formation

2. *ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:*

Green River	1,517'
Target (Basal Carbonate)	6,171'
TD	6,171' TVD / 10,183' MD

3. *ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:*

Green River Formation (Oil) 3,930' – 6,171' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 300'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by the State of Utah DOGM representative at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the State of Utah DOGM Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the State of Utah DOGM Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Date Sampled

Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO_3) (mg/l)
Dissolved Bicarbonate ($NaHCO_3$) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO_4) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. *PROPOSED CASING PROGRAM*

a. Casing Design

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Design Factors		
	Top	Bottom							Burst	Col	Tens
Surface 8-5/8"	0'	1,000'	24.0	J-55	STC	8.33	8.33	12.0	5.12	4.11	10.17
Production 5-1/2"	0'	10,183'	17.0	N-80	LTC	8.3	8.5	--	3.76	2.98	2.25

Assumptions:

1) Surface casing MASP = (frac gradient + 1.0 ppg) – gas gradient
2) Production casing MASP (production mode) = reservoir pressure – gas gradient
3) All collapse calculations assume fully evacuated casing
4) Surface tension calculations assume air weight of casing
5) Production tension calculations assumer air weight in vertical portion of hole, plus 50,000 lbs overpull

All casing shall be new.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cement Design

Job	Hole Size	Fill	Slurry Description	ft^3 / Sacks	OH Excess	Weight (ppg)	Yield (ft3/sk)
Surface	12-1/4"	1,000'	Class G w/ 2% $CaCl_2$, 0.25 lbs/sk Cello Flake	475 / 406	15%	15.8	1.17
Production Lead	7-7/8"	3,930'	Premium Lite II w/ 3% KCl, 10% bentonite	783 / 240	15%	15.8	3.26
Production Tail	7-7/8"	1,585'	50/50 Poz/Class G w/ 3% KCl, 2% bentonite	316 / 255	15%	14.3	1.24

Actual cement volumes will be calculated from open hole logs, plus 15% excess.

Cement will be pumped through a port cementing collar located at the top of the curve. The lateral will be left uncemented. The lateral will be isolated with open hole packers.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The State of Utah DOGM Office shall be notified, with sufficient lead time, in order to have a State representative on location while running all casing strings and cementing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

A "Sundry Notices and Reports on Wells" shall be filed with the State of Utah DOGM Office within 30 days after the work is completed. This report must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

5. *MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:*

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 2M system.

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and a rotating head per **Exhibit C**. This system will be in accordance to the specifications listed in the Standard Operating Procedures for the Greater Monument Butte Green River Development Program.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to State of Utah DOGM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

6. *TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:*

From surface to 1000', an air or fresh water system will be used. From 1000' to TD, a fresh water or brine water system will be utilized. Anticipated maximum mud weight is 9.0 lbs/gal. If

necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior State approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

7. *AUXILIARY SAFETY EQUIPMENT TO BE USED:*

8. *TESTING, LOGGING AND CORING PROGRAMS:*

a. Logging Program:
(the log types run may change at the discretion of the geologist)

FDC/CNL/GR/DIL: Top of the curve – 3,930'
CBL: A cement bond log will be run from KOP to the cement top of the production casing. A field copy will be submitted to the State of Utah DOGM Office.

b. Cores: As deemed necessary.

c. Drill Stem Tests: No DSTs are planned in the Green River.

9. *ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:*

There is no abnormal pressure or temperature expected. Maximum anticipated bottomhole pressure will be approximately equal total true vertical depth in feet multiplied by a 0.433 psi/foot gradient.

10. *ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:*

a. Drilling Activity

Anticipated Commencement Date:	Upon approval of the site specific APD.
Drilling Days:	Approximately 18 days.
Completion Days:	Approximately 12 - 20 days.

b. Notification of Operations

The State of Utah DOGM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the appropriate regulations, Onshore Orders, or State policy.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given to the State of Utah DOGM before resumption of operations.

Daily drilling and completion reports shall be submitted to the State of Utah DOGM Office on a weekly basis.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations after the wells are stimulated to run the production tubing.. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the State of Utah DOGM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the State of Utah DOGM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

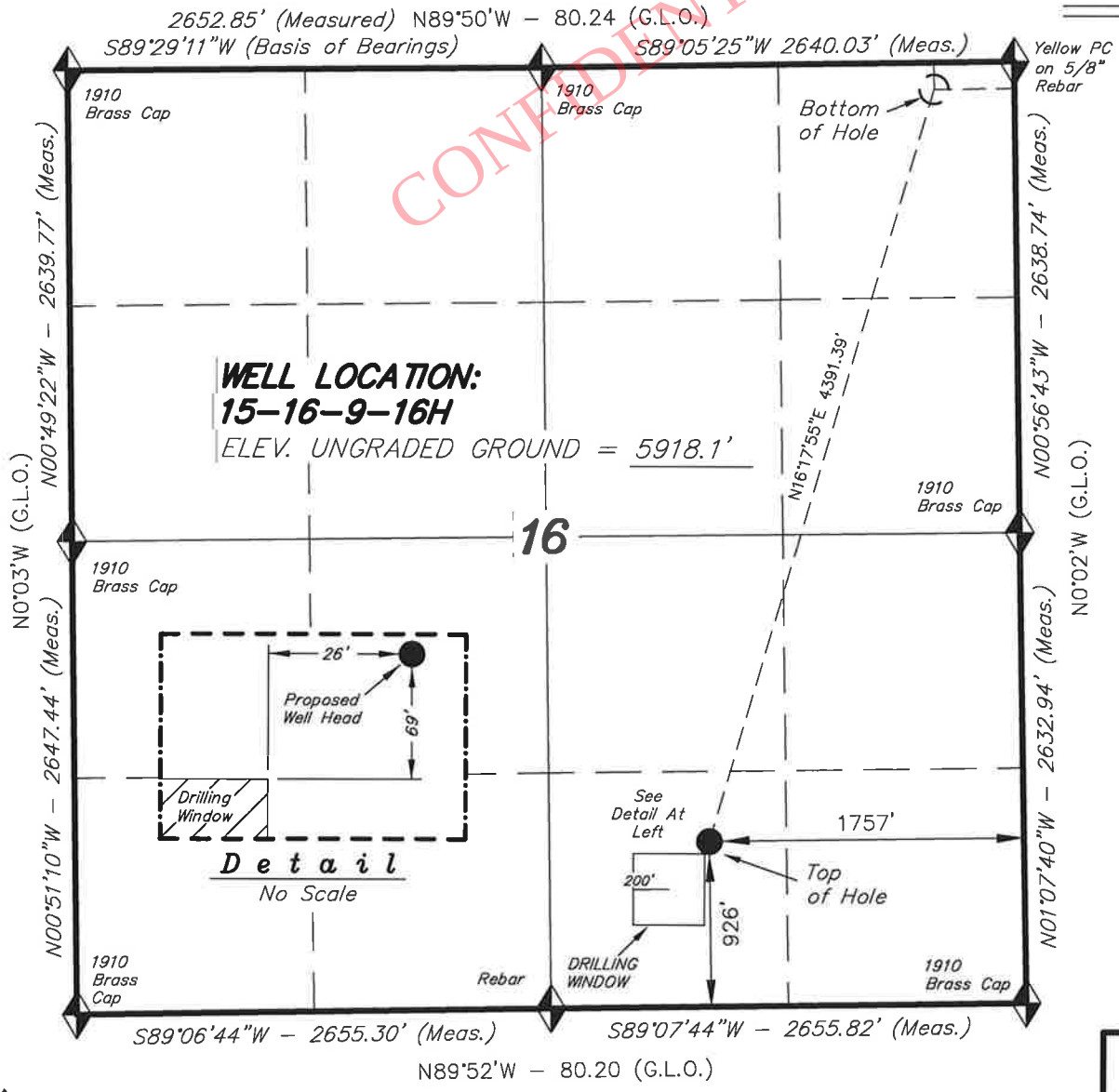
Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

'APIWellNo:43013504420000'

T9S, R16E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

WELL LOCATION, 15–16–9–16H, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 15–16–9–16H, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 16, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'

BAR SCALE

N

Note:
1. The bottom of hole footages are 150' FNL & 450' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
STACY W. STEWART
REGISTRATION No. 189377
STATE OF UTAH

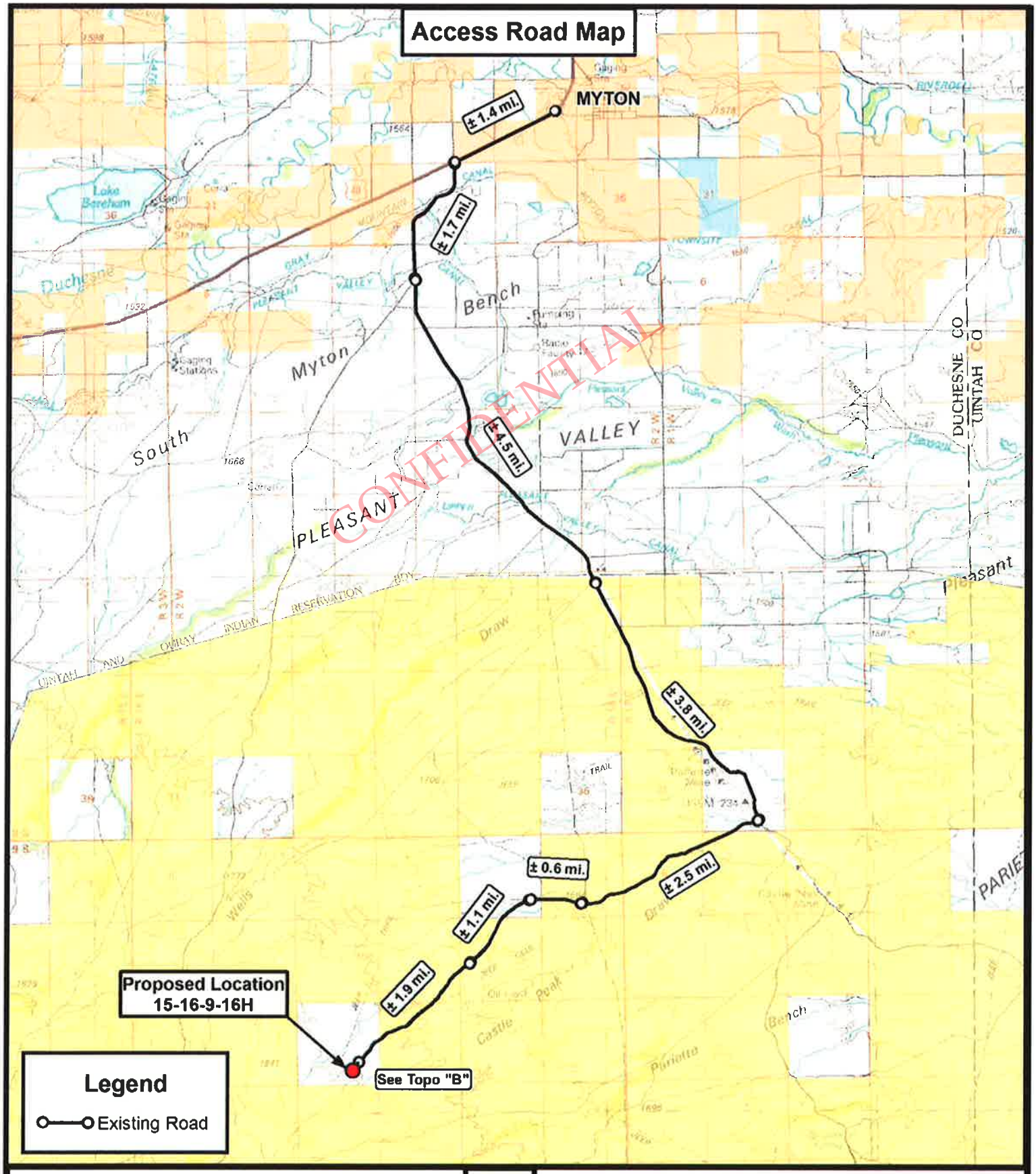
STATE OF UTAH

15–16–9–16H (Surface Location) NAD 83	
LATITUDE = 40° 01' 34.16"	
LONGITUDE = 110° 07' 15.93"	

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781–2501

DATE SURVEYED: 07–13–10	SURVEYED BY: C.M.
DATE DRAWN: 08–02–10	DRAWN BY: M.W.
REVISED: 08–11–10 – M.W.	SCALE: 1" = 1000'

'APIWellNo:43013504420000'



Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

15-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

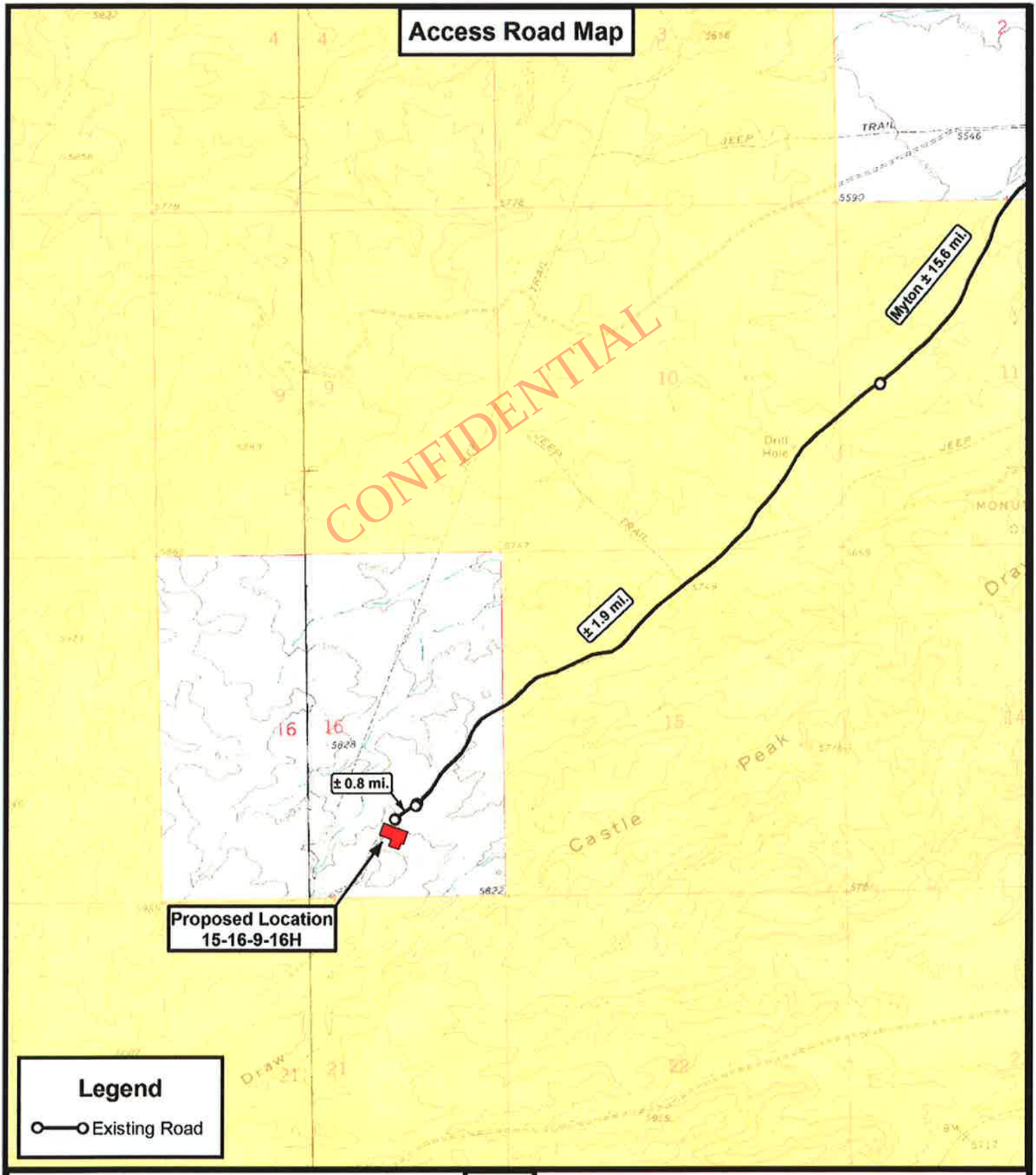
DRAWN BY:	C.H.M.
DATE:	08-03-2010
SCALE:	1:100,000

TOPOGRAPHIC MAP

SHEET
A

'APIWellNo:43013504420000'

Access Road Map



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NEWFIELD EXPLORATION COMPANY

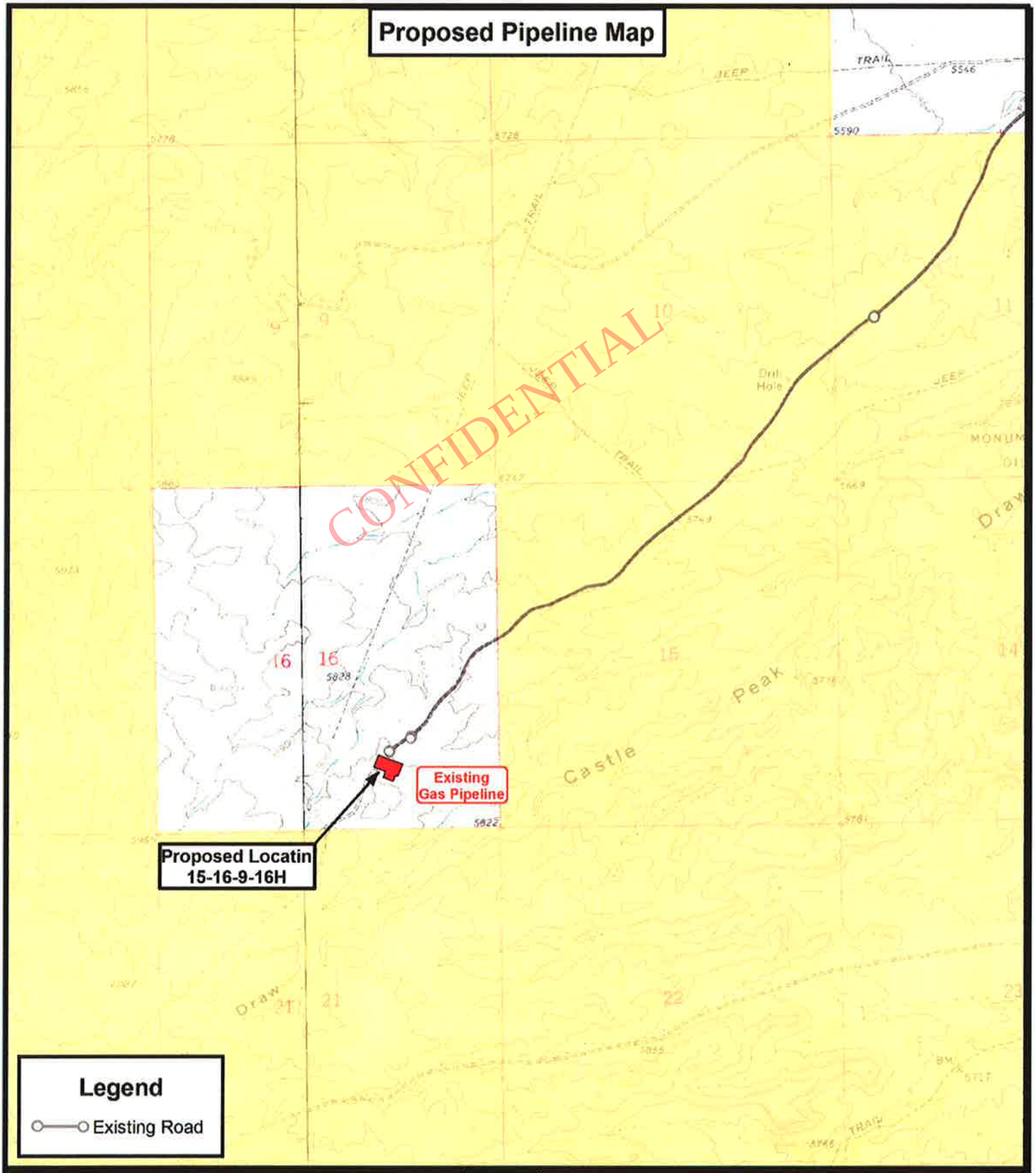
15-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	08-03-2010
SCALE:	1 " = 2,000 '

TOPOGRAPHIC MAP

SHEET B

'APIWellNo:43013504420000'



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NEWFIELD EXPLORATION COMPANY
15-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	08-03-2010
SCALE:	1 " = 2,000 '

TOPOGRAPHIC MAP

SHEET C

'APIWellNo:43013504420000'

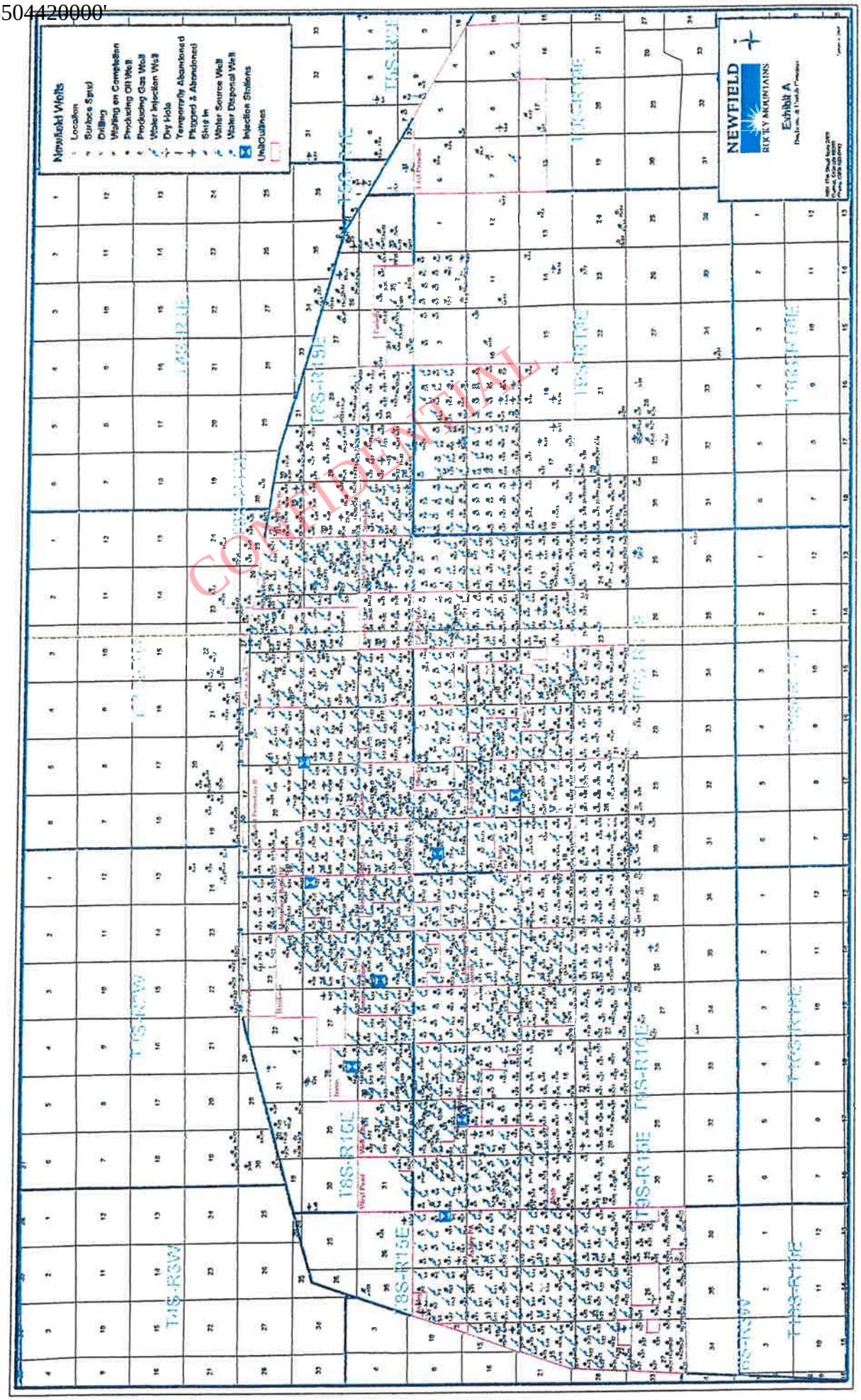

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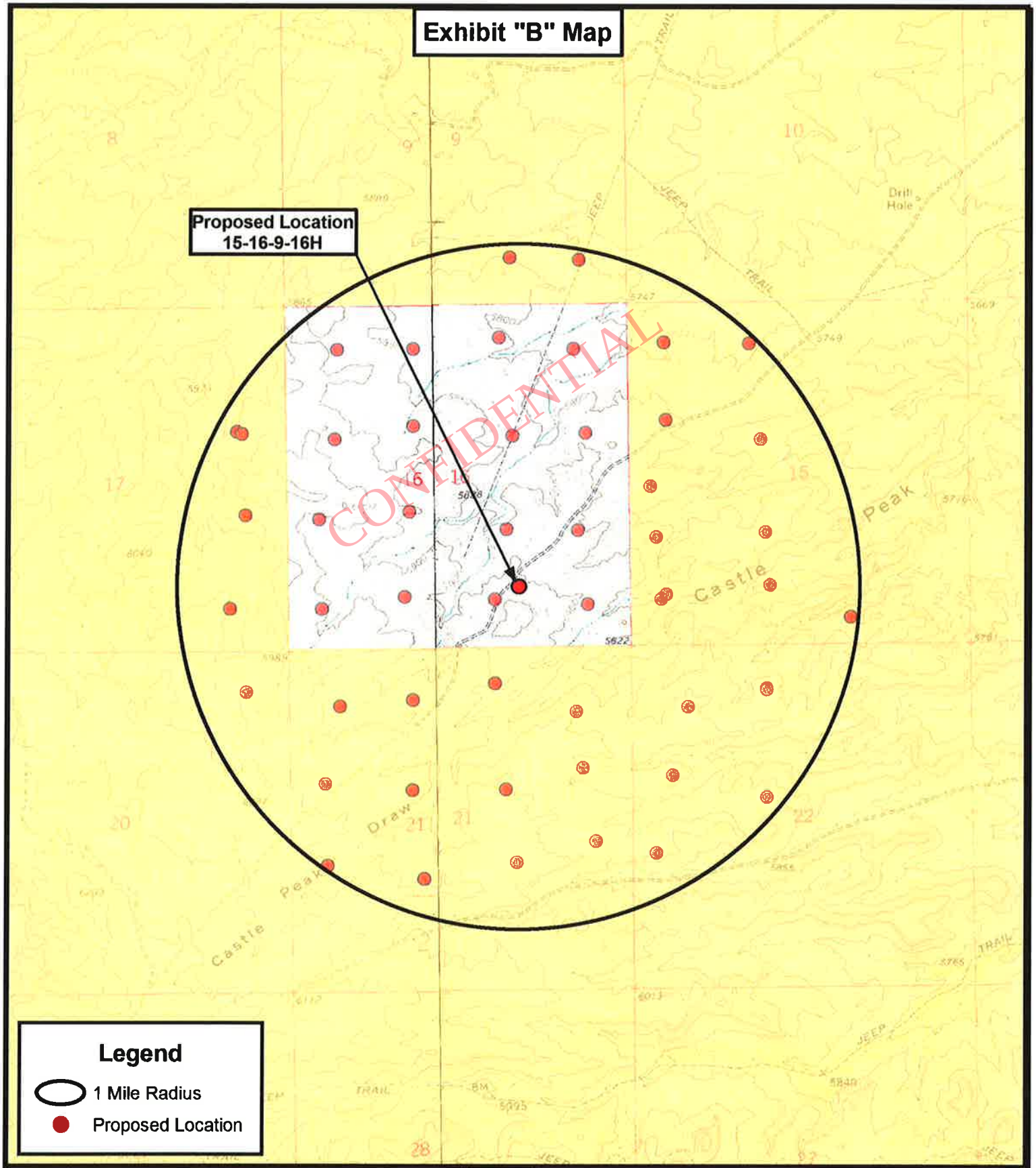
Exhibit "B" Map



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NEWFIELD EXPLORATION COMPANY
15-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	08-03-2010
SCALE:	1 " = 2,000 '

TOPOGRAPHIC MAP

SHEET
D

NEWFIELD

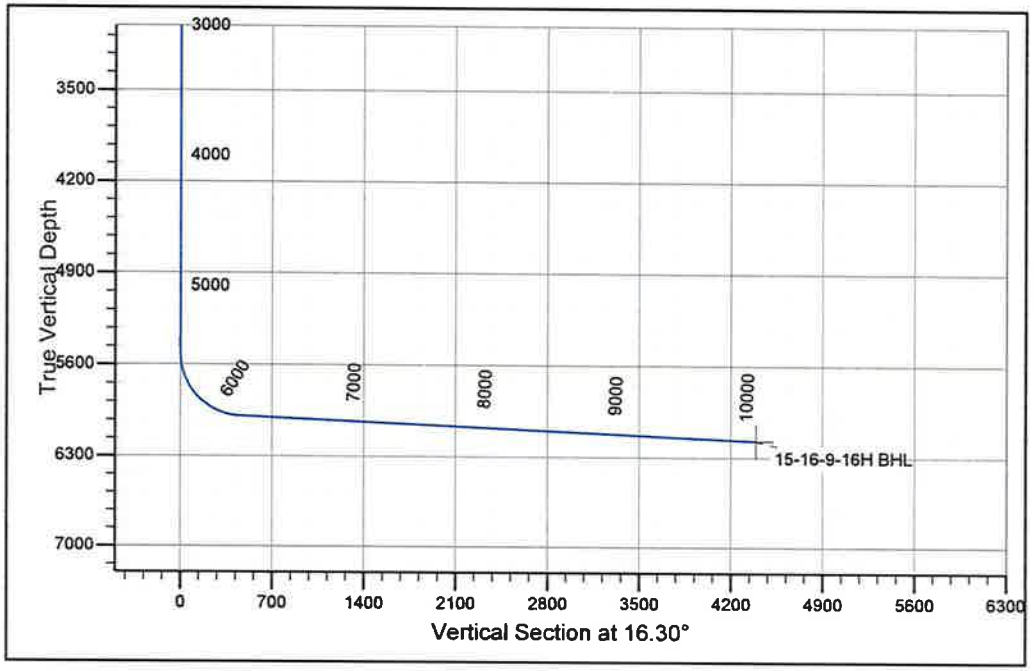
ROCKY MOUNTAINS

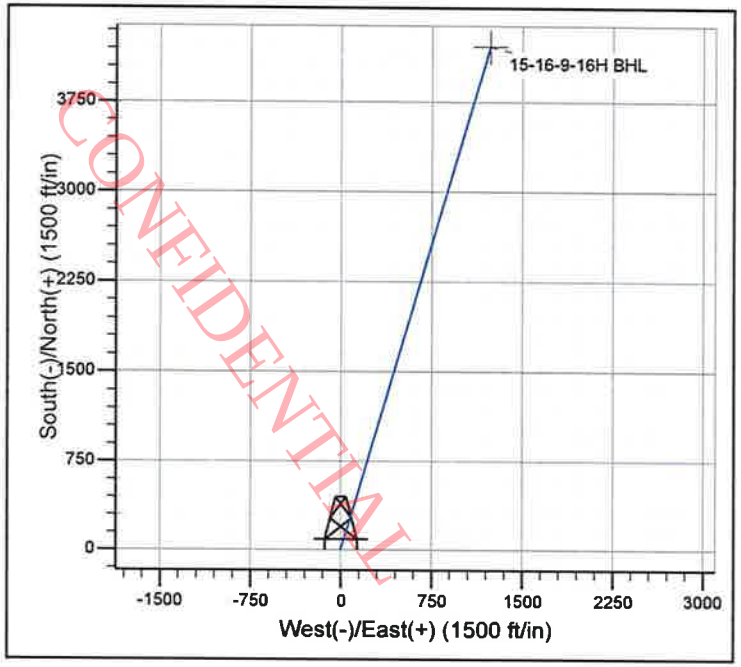
Newfield Production Company

Project: Monument Butte
Site: GMB 15-16-9-16H
Well: GMB 15-16-9-16H
Wellbore: Wellbore #1
Design: Design #1

T M Azimuths to True North
Magnetic North: 11.50°

Magnetic Field
Strength: 52423.9snT
Dip Angle: 65.81°
Date: 12/31/2009
Model: IGRF200510





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5514.6	0.00	0.00	5514.6	0.0	0.0	0.00	0.00	0.0	
3	6242.9	87.39	16.30	5991.6	437.4	127.9	12.00	16.30	455.7	
4	10182.6	87.39	16.30	6171.0	4214.9	1232.4	0.00	0.00	4391.4	15-16-9-16H BHL

Created by: Hans Wychgram

Date: 10-13-10

PROJECT DETAILS: Monument Butte

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
System Datum: Mean Sea Level

'APIWellNo:43013504420000'

Newfield Production Company

Monument Butte
GMB 15-16-9-16H
GMB 15-16-9-16H

Wellbore #1

Plan: Design #1

Standard Planning Report

13 October, 2010

'APIWellNo:43013504420000'

Newfield Exploration
Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well GMB 15-16-9-16H
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5928.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5928.0ft (NDSI #2)
Site:	GMB 15-16-9-16H	**North Reference:**	True
Well:	GMB 15-16-9-16H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Monument Butte		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	GMB 15-16-9-16H				
Site Position:		**Northing:**	2,188,842.44 m	**Latitude:**	40° 1' 34.160 N
From:	Lat/Long	**Easting:**	617,689.44 m	**Longitude:**	110° 7' 15.930 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	0.88 °

Well	GMB 15-16-9-16H					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,188,842.44 m	**Latitude:**	40° 1' 34.160 N
	+E/-W	0.0 ft	**Easting:**	617,689.44 m	**Longitude:**	110° 7' 15.930 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,918.0 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	11.50	65.81	52,424

Design Design #1

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.0	0.0	0.0	16.30

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,514.6	0.00	0.00	5,514.6	0.0	0.0	0.00	0.00	0.00	0.00	
6,242.9	87.39	16.30	5,991.6	437.4	127.9	12.00	12.00	0.00	16.30	
10,182.6	87.39	16.30	6,171.0	4,214.9	1,232.4	0.00	0.00	0.00	0.00	15-16-9-16H BHL

Newfield Exploration

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well GMB 15-16-9-16H
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5928.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5928.0ft (NDSI #2)
Site:	GMB 15-16-9-16H	**North Reference:**	True
Well:	GMB 15-16-9-16H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

'APIWellNo:43013504420000'

Newfield Exploration
Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well GMB 15-16-9-16H
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5928.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5928.0ft (NDSI #2)
Site:	GMB 15-16-9-16H	**North Reference:**	True
Well:	GMB 15-16-9-16H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,514.6	0.00	0.00	5,514.6	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	10.25	16.30	5,599.5	7.3	2.1	7.6	12.00	12.00	0.00
5,700.0	22.25	16.30	5,695.4	34.1	10.0	35.5	12.00	12.00	0.00
5,800.0	34.25	16.30	5,783.3	79.4	23.2	82.8	12.00	12.00	0.00
5,900.0	46.25	16.30	5,859.5	141.3	41.3	147.3	12.00	12.00	0.00
6,000.0	58.25	16.30	5,920.6	217.1	63.5	226.2	12.00	12.00	0.00
6,100.0	70.25	16.30	5,964.0	303.4	88.7	316.1	12.00	12.00	0.00
6,200.0	82.25	16.30	5,987.7	396.4	115.9	413.0	12.00	12.00	0.00
6,242.9	87.39	16.30	5,991.6	437.4	127.9	455.7	12.00	12.00	0.00
6,300.0	87.39	16.30	5,994.2	492.2	143.9	512.8	0.00	0.00	0.00
6,400.0	87.39	16.30	5,998.7	588.1	171.9	612.7	0.00	0.00	0.00
6,500.0	87.39	16.30	6,003.3	683.9	200.0	712.6	0.00	0.00	0.00
6,600.0	87.39	16.30	6,007.9	779.8	228.0	812.5	0.00	0.00	0.00
6,700.0	87.39	16.30	6,012.4	875.7	256.1	912.4	0.00	0.00	0.00
6,800.0	87.39	16.30	6,017.0	971.6	284.1	1,012.3	0.00	0.00	0.00
6,900.0	87.39	16.30	6,021.5	1,067.5	312.1	1,112.2	0.00	0.00	0.00
7,000.0	87.39	16.30	6,026.1	1,163.4	340.2	1,212.1	0.00	0.00	0.00
7,100.0	87.39	16.30	6,030.6	1,259.2	368.2	1,312.0	0.00	0.00	0.00
7,200.0	87.39	16.30	6,035.2	1,355.1	396.2	1,411.9	0.00	0.00	0.00
7,300.0	87.39	16.30	6,039.7	1,451.0	424.3	1,511.8	0.00	0.00	0.00
7,400.0	87.39	16.30	6,044.3	1,546.9	452.3	1,611.6	0.00	0.00	0.00
7,500.0	87.39	16.30	6,048.8	1,642.8	480.3	1,711.5	0.00	0.00	0.00
7,600.0	87.39	16.30	6,053.4	1,738.6	508.4	1,811.4	0.00	0.00	0.00
7,700.0	87.39	16.30	6,057.9	1,834.5	536.4	1,911.3	0.00	0.00	0.00
7,800.0	87.39	16.30	6,062.5	1,930.4	564.4	2,011.2	0.00	0.00	0.00
7,900.0	87.39	16.30	6,067.1	2,026.3	592.5	2,111.1	0.00	0.00	0.00
8,000.0	87.39	16.30	6,071.6	2,122.2	620.5	2,211.0	0.00	0.00	0.00
8,100.0	87.39	16.30	6,076.2	2,218.1	648.5	2,310.9	0.00	0.00	0.00
8,200.0	87.39	16.30	6,080.7	2,313.9	676.6	2,410.8	0.00	0.00	0.00
8,300.0	87.39	16.30	6,085.3	2,409.8	704.6	2,510.7	0.00	0.00	0.00
8,400.0	87.39	16.30	6,089.8	2,505.7	732.7	2,610.6	0.00	0.00	0.00
8,500.0	87.39	16.30	6,094.4	2,601.6	760.7	2,710.5	0.00	0.00	0.00
8,600.0	87.39	16.30	6,098.9	2,697.5	788.7	2,810.4	0.00	0.00	0.00
8,700.0	87.39	16.30	6,103.5	2,793.3	816.8	2,910.3	0.00	0.00	0.00
8,800.0	87.39	16.30	6,108.0	2,889.2	844.8	3,010.2	0.00	0.00	0.00
8,900.0	87.39	16.30	6,112.6	2,985.1	872.8	3,110.1	0.00	0.00	0.00
9,000.0	87.39	16.30	6,117.1	3,081.0	900.9	3,210.0	0.00	0.00	0.00
9,100.0	87.39	16.30	6,121.7	3,176.9	928.9	3,309.9	0.00	0.00	0.00
9,200.0	87.39	16.30	6,126.3	3,272.7	956.9	3,409.8	0.00	0.00	0.00
9,300.0	87.39	16.30	6,130.8	3,368.6	985.0	3,509.7	0.00	0.00	0.00
9,400.0	87.39	16.30	6,135.4	3,464.5	1,013.0	3,609.6	0.00	0.00	0.00
9,500.0	87.39	16.30	6,139.9	3,560.4	1,041.0	3,709.5	0.00	0.00	0.00
9,600.0	87.39	16.30	6,144.5	3,656.3	1,069.1	3,809.4	0.00	0.00	0.00
9,700.0	87.39	16.30	6,149.0	3,752.2	1,097.1	3,909.3	0.00	0.00	0.00
9,800.0	87.39	16.30	6,153.6	3,848.0	1,125.1	4,009.2	0.00	0.00	0.00
9,900.0	87.39	16.30	6,158.1	3,943.9	1,153.2	4,109.1	0.00	0.00	0.00
10,000.0	87.39	16.30	6,162.7	4,039.8	1,181.2	4,209.0	0.00	0.00	0.00
10,100.0	87.39	16.30	6,167.2	4,135.7	1,209.2	4,308.8	0.00	0.00	0.00
10,182.6	87.39	16.30	6,171.0	4,214.9	1,232.4	4,391.4	0.00	0.00	0.00
15-16-9-16H BHL									

'APIWellNo:43013504420000'

Newfield Exploration

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well GMB 15-16-9-16H
Company:	Newfield Production Company	**TVD Reference:**	RKB @ 5928.0ft (NDSI #2)
Project:	Monument Butte	**MD Reference:**	RKB @ 5928.0ft (NDSI #2)
Site:	GMB 15-16-9-16H	**North Reference:**	True
Well:	GMB 15-16-9-16H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 15-16-9-16H
AT SURFACE: SW/SE SECTION 16, T9S, R16E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Greater Monument Butte 15-16-9-16H located in the SW¼ SE¼ Section 16, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 10.0 miles ± to it's junction with an existing road to the southwest; proceed southwesterly – 6.9 miles ± to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

No access is road is proposed for the Greater Monument Butte 3-16-9-16H. See attached **Topographic Map "B"**.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times

d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah.

12. **OTHER ADDITIONAL INFORMATION:**

In the event that the proposed well is converted to a water injection well, a Sundry Notice form will be applied for through the State of Utah DOGM office.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #10-168, 9/22/10. Paleontological Resource Survey prepared by, Wade E. Miller, 9/6/10. See attached report cover pages, Exhibit "D".

a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte 15-16-9-16H, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte 15-16-9-16H Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:**

Representative

Name: Tim Eaton
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #15-16-9-16H, SW/SE Section 16, T9S, R16E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

10/20/10
Date

Mandie Crozier
Regulatory Specialist
Newfield Production Company

'APIWellNo:43013504420000'

2-M SYSTEM

Blowout Prevention Equipment Systems

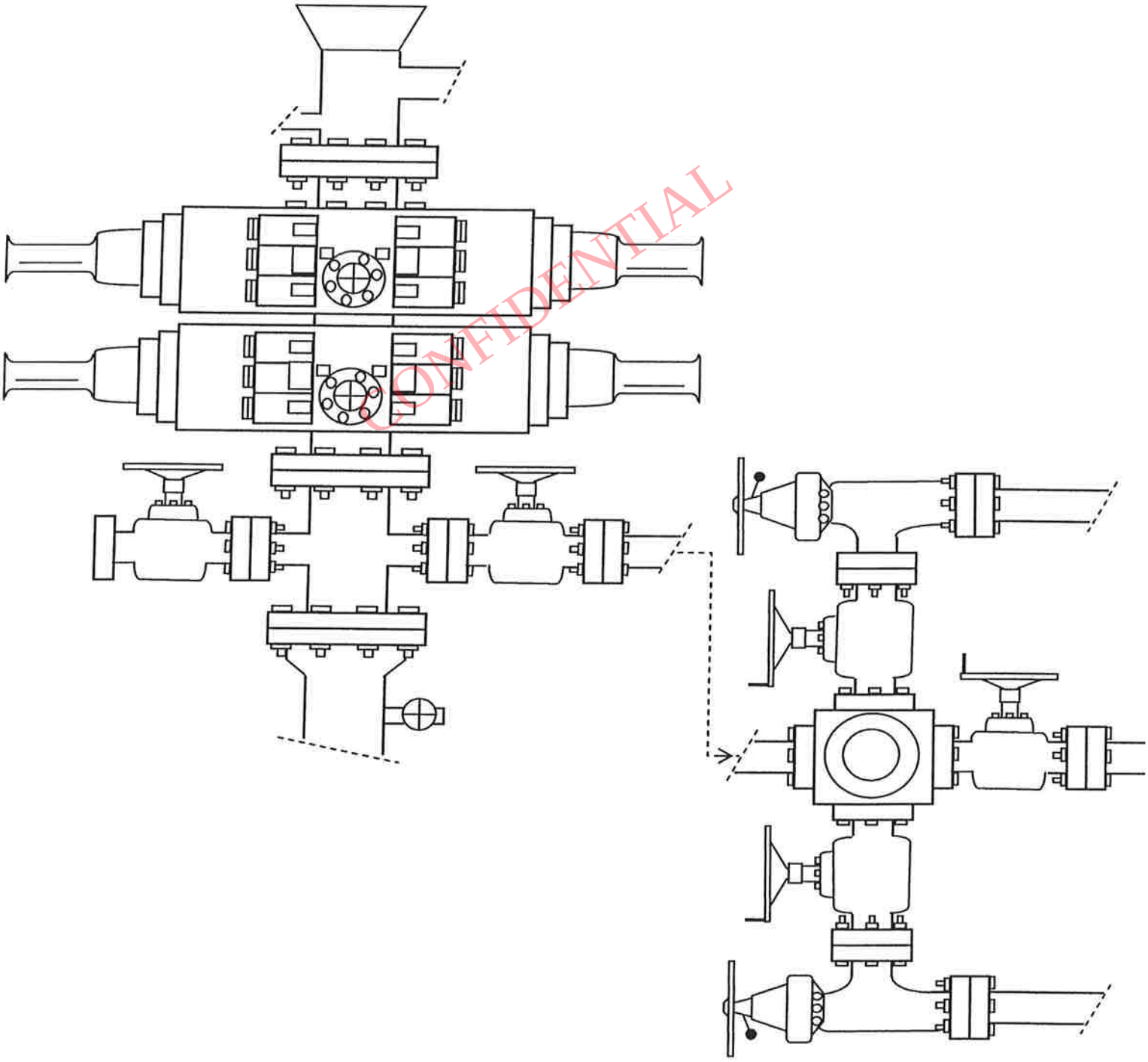


EXHIBIT C

'APIWellNo:43013504420000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

October 22, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
43-013-50440	GMBU 3-2-9-16H	Sec 02 T09S R16E 0941 FNL 1774 FWL
	Lateral 1	Sec 02 T09S R16E 0250 FSL 0075 FWL
43-013-50441	GMBU 3-16-9-16H	Sec 16 T09S R16E 0984 FNL 1885 FWL
	Lateral 1	Sec 16 T09S R16E 0100 FSL 0150 FWL
43-013-50442	GMBU 15-16-9-16H	Sec 16 T09S R16E 0926 FSL 1757 FEL
	Lateral 1	Sec 16 T09S R16E 0150 FNL 0450 FEL
43-013-50443	GMBU 15-32-8-16H	Sec 32 T08S R16E 0534 FSL 2305 FEL
	Lateral 1	Sec 32 T08S R16E 0200 FNL 0200 FEL
43-013-50444	GMBU 3-36-8-16H	Sec 36 T08S R16E 0356 FNL 2040 FWL
	Lateral 1	Sec 36 T08S R16E 0300 FSL 0100 FWL

This office has no objection to permitting the wells at this time.

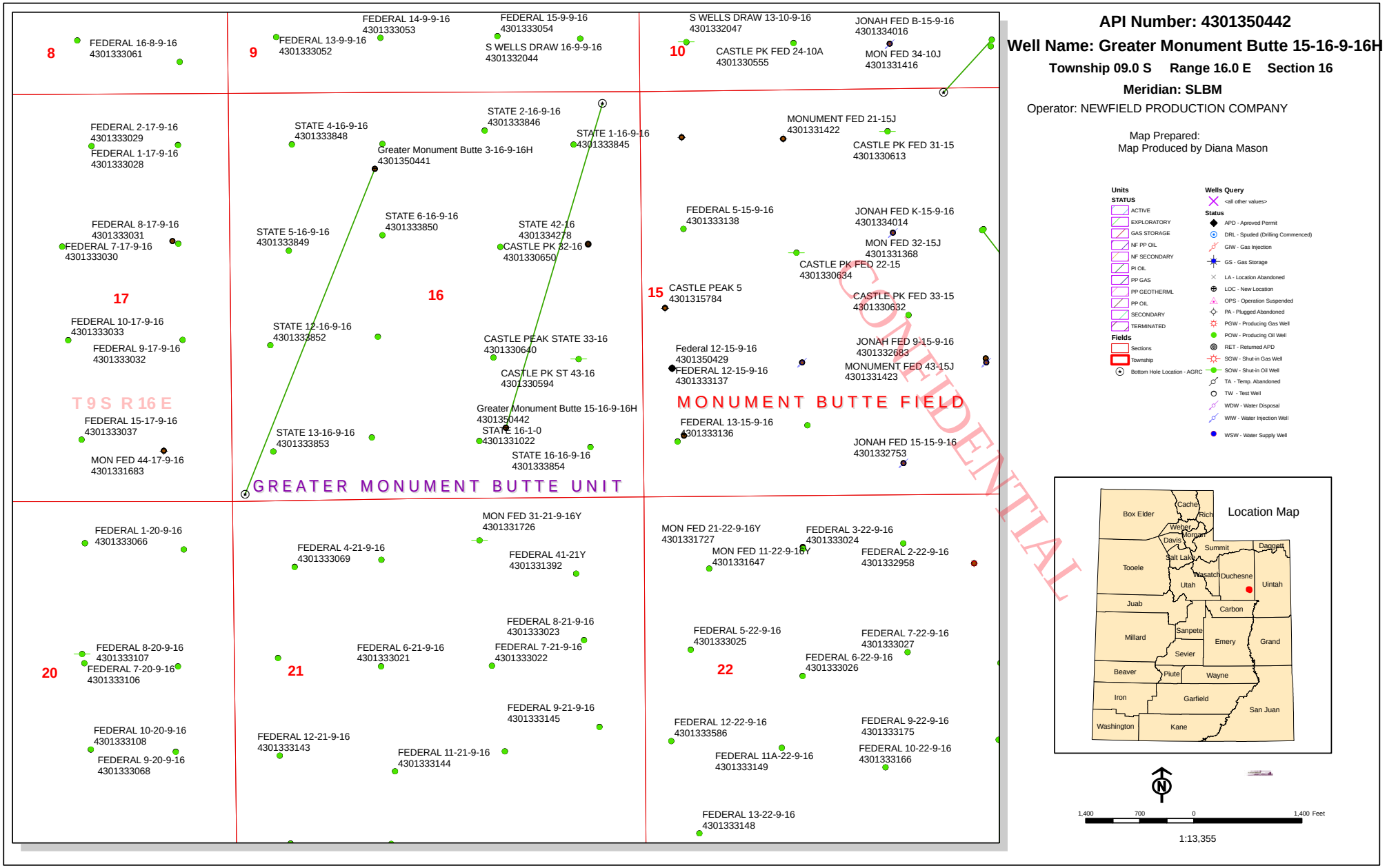
Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.10.22 10:15:16 -06'00'

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-22-10

'APIWellNo:43013504420000'



API Number: 4301350442

Well Name: Greater Monument Butte 15-16-9-16H

Township 09.0 S Range 16.0 E Section 16

Meridian: SLBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED
Fields
Sections
Township
Bottom Hole Location - AGRC

Wells Query
<all other values>
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LA - Location Abandoned
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
RET - Returned APD
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well

1:13,355

'APIWellNo:43013504420000'

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Garrison, LaVonne
Date: 11/10/2010 5:20 PM
Subject: Newfield approvals (4) one with an arc stip

The following wells have been approved by SITLA including arch and paleo clearance- with one well having an arch stip as a C.O.A.

Newfield's Greater Monument Butte 15-6-9-16H [API #4301350442] (U-10-MQ-0653s)

Newfield's Greater Monument Butte 3-2-9-16H [API #4301350440] (U-10-MQ-0652s)

Newfield's Greater Monument Butte 3-16-9-16H [API #4301350441] (U-07-MQ-1297s)

Newfield's Greater Monument Butte 3-36-8-16H [API 3430150444] (U-10-MQ-0654b,s; 1 eligible site, 42Dc909, adjacent to well pad which must be avoided as a condition of the approval of this APD.

-Jim Davis

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

BOPE REVIEW NEWFIELD PRODUCTION COMPANY onument Butte 15-16-9-16H 43013504420000

Well Name	NEWFIELD PRODUCTION COMPANY Greater Monument Butte 15-16-9-1			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	1500	6171		
Previous Shoe Setting Depth (TVD)	0	1500		
Max Mud Weight (ppg)	8.3	8.5		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	7740		
Operators Max Anticipated Pressure (psi)	2654	8.3		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	647		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	467	YES	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	317	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	317	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2728		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1987	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1370	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1700	NO	Reasonable
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient	

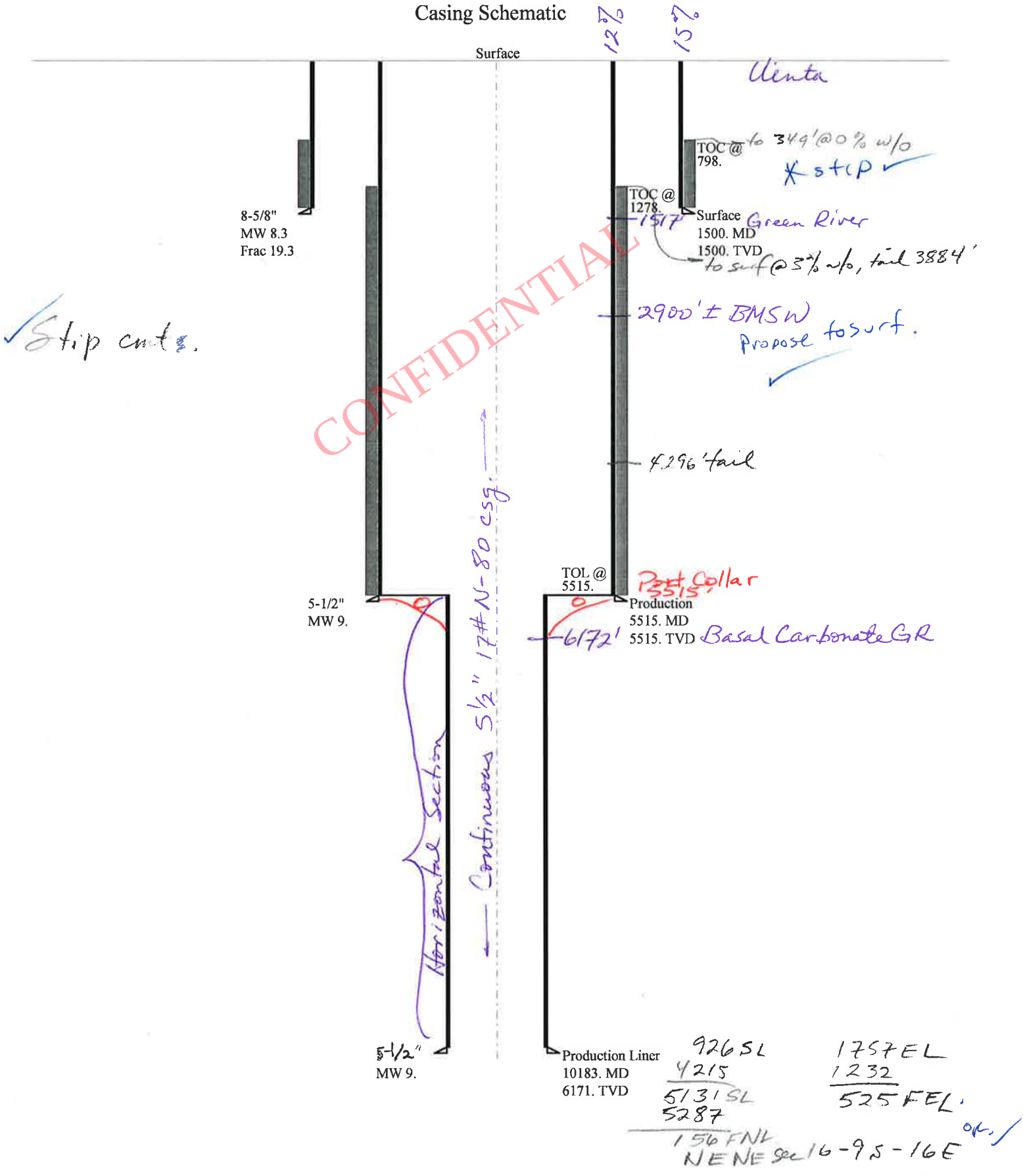
Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

'APIWellNo:43013504420000'

43013504420000 Greater Monument Butte 15-16-9-16H

Casing Schematic



'APIWellNo:43013504420000'

Well name:	**43013504420000 Greater Monument Butte 15-16-9-16H**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-50442
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,312 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 95 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 798 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 6,171 ft
Next mud weight: 9.000 ppg
Next setting BHP: 2,885 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	8.625	24.00	J-55	ST&C	1500	1500	7.972	7722

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	649	1370	2.111	1500	2950	1.97	36	244	6.78 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 7,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43013504420000'

Well name:	**43013504420000 Greater Monument Butte 15-16-9-16H**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-50442
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,365 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,578 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 4,762 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 151 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 1,278 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	5515	5.5	17.00	N-80	LT&C	5515	5515	4.767	31085

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2578	5900	2.288	2578	7740	3.00	93.8	348	3.71 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 7,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 5515 ft, a mud weight of 9 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	Greater Monument Butte 15-16-9-16H				
API Number	43013504420000	**APD No**	3085	**Field/Unit**	MONUMENT BUTTE
Location: 1/4,1/4	SWSE **Sec** 16 **Tw** 9.0S **Rng** 16.0E	926	FSL	1757	FEL
GPS Coord (UTM)	575057 4430827	**Surface Owner**			

Participants

Floyd Bartlett (DOGM), Shon McKinnon (Newfield Production Company), Ed Bonner (SITLA), Ben Williams (Utah Division of Wildlife Resources).

Regional/Local Setting & Topography

The general area is approximately 18 miles southwest of Myton, Utah in the middle to upper Castle Peak Draw area. Castle Peak Draw runs in a northeasterly direction about 12 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. The drainages of Castle Peak Draw are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. No streams springs or seeps occur in this area. An occasional pond constructed to store runoff for livestock or wildlife exists. . Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 18.3 miles. No new construction will be required.

The proposed Greater Monument Butte 15-16-9-16H horizontal well location is on a moderately gentle north slope which leads away from a steeper ridge to the south. Beyond the proposed pad, terrain to the north becomes gentle with some gullies. A diversion should be considered when the reserve pit is closed or construct an on-location berm against the pit area to divert any flows around the pad. The existing road crosses the northwest corner of the site and will serve as access to the pad. The pad is located to the northwest of the normal drilling window to avoid the ridge to the south. The well will be drilled horizontally with the target zone continuing northeasterly a distance of 4,391 feet from the wellhead. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	**Width** 310 **Length** 400	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a desert shrub type. Identified vegetation consisted of black sagebrush, squirrel tail, greasewood, Indian ricegrass, blue gramma, shadscale, needle and thread grass, prickly pear, globe mallow, mustard weed, bud sage, rabbit brush, horsebrush, broom snakeweed, halogeton, winter fat, curly mesquite grass and spring annuals.

Cattle, prairie dogs, antelope, small mammals and birds.

Soil Type and Characteristics

Moderately deep sandy clay loam.

Erosion Issues N

Sedimentation Issues Y

A diversion should be considered when the reserve pit is closed or construct an on-location berm against the pit area to divert any flows around the pad.

Site Stability Issues N

Drainage Diverson Required? Y

A diversion should be considered when the reserve pit is closed or construct an on-location berm against the pit area to divert any flows around the pad.

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	300 to 1320	10	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	30	1 Sensitivity Level

Characteristics / Requirements

A 100’ x 165’ x 8' deep reserve pit is planned in an area of cut on the southeast side of the location. A 16-mil pit liner and a felt sub-liner are required.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	11/4/2010
Evaluator	**Date / Time**

'APIWellNo:43013504420000'

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3085	43013504420000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**		
Well Name	Greater Monument Butte 15-16-9-16H		**Unit**	GMBU (GRRV)	
Field	MONUMENT BUTTE		**Type of Work**	DRILL	
Location	SWSE 16 9S 16E S 926 FSL 1757 FEL		GPS Coord (UTM)	575052E 4430817N	

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,900'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought high enough to cover the estimated base of the moderately saline ground water.

Brad Hill	11/17/2010
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is approximately 18 miles southwest of Myton, Utah in the middle to upper Castle Peak Draw area. Castle Peak Draw runs in a northeasterly direction about 12 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. The drainages of Castle Peak Draw are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. No streams springs or seeps occur in this area. An occasional pond constructed to store runoff for livestock or wildlife exists. . Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 18.3 miles. No new construction will be required.

The proposed Greater Monument Butte 15-16-9-16H horizontal well location is on a moderately gentle north slope which leads away from a steeper ridge to the south. Beyond the proposed pad, terrain to the north becomes gentle with some gullies. A diversion should be considered when the reserve pit is closed or construct an on-location berm against the pit area to divert any flows around the pad. The existing road crosses the northwest corner of the site and will serve as access to the pad. The pad is located to the northwest of the normal drilling window to avoid the ridge to the south. The well will be drilled horizontally with the target zone continuing northeasterly a distance of 4,391 feet from the wellhead. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. Both the surface and minerals are owned by SITLA.

Ed Bonner of SITLA was invited to and attended the pre-site visit. He had no concerns regarding the proposal. SITLA will provide reclamation standards including the re-vegetation practices to be followed. Ben Williams representing the Utah Division of Wildlife Resources stated the area is classified crucial yearlong antelope habitat. No restrictions were requested. No other wildlife are expected to be significantly affected.

Floyd Bartlett	11/4/2010
Onsite Evaluator	**Date / Time**

'APIWellNo:43013504420000'

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/20/2010 **API NO. ASSIGNED:** 43013504420000

WELL NAME: Greater Monument Butte 15-16-9-16H

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWSE 16 090S 160E **Permit Tech Review:** ☑

SURFACE: 0926 FSL 1757 FEL **Engineering Review:** ☑

BOTTOM: 0150 FNL 0450 FEL **Geology Review:** ☑

COUNTY: DUCHESNE

LATITUDE: 40.02613 **LONGITUDE:** -110.12045

UTM SURF EASTINGS: 575052.00 **NORTHINGS:** 4430817.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-16532 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: GMBU (GRRV)

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

5 - Statement of Basis - bhill
15 - Directional - bhill
25 - Surface Casing - hmacdonald
27 - Other - bhill

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Greater Monument Butte 15-16-9-16H
API Well Number: 43013504420000
Lease Number: ML-16532
Surface Owner: STATE
Approval Date: 12/14/2010

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Surface casing shall be cemented to the surface.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 22, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-52013	GMBU 2-16-9-18H	Sec 16 T09S R18E 0541 FNL 1998 FEL
	Lateral 1	Sec 16 T09S R18E 0200 FSL 1200 FWL
43-013-50983	GMBU 1-16-9-16H	Sec 16 T09S R16E 0806 FNL 0652 FEL
	Lateral 1	Sec 16 T09S R16E 0100 FSL 2300 FEL

Pursuant to telephone conversation between Steve Adams, Newfield Production Company, and Mickey Coulthard, Utah State Office, Bureau of Land Management, upon approval of the GMBU 1-16-9-16H Newfield will request that the approval of the 15-16-9-16H, API 43-013-50442 be rescinded.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.09.22 13:44:02 -06'00'

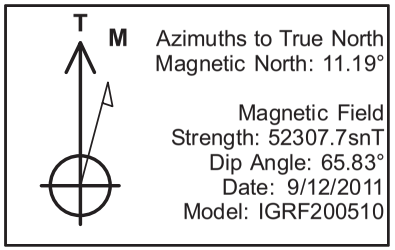
bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-22-11

NEWFIELD
ROCKY MOUNTAINS

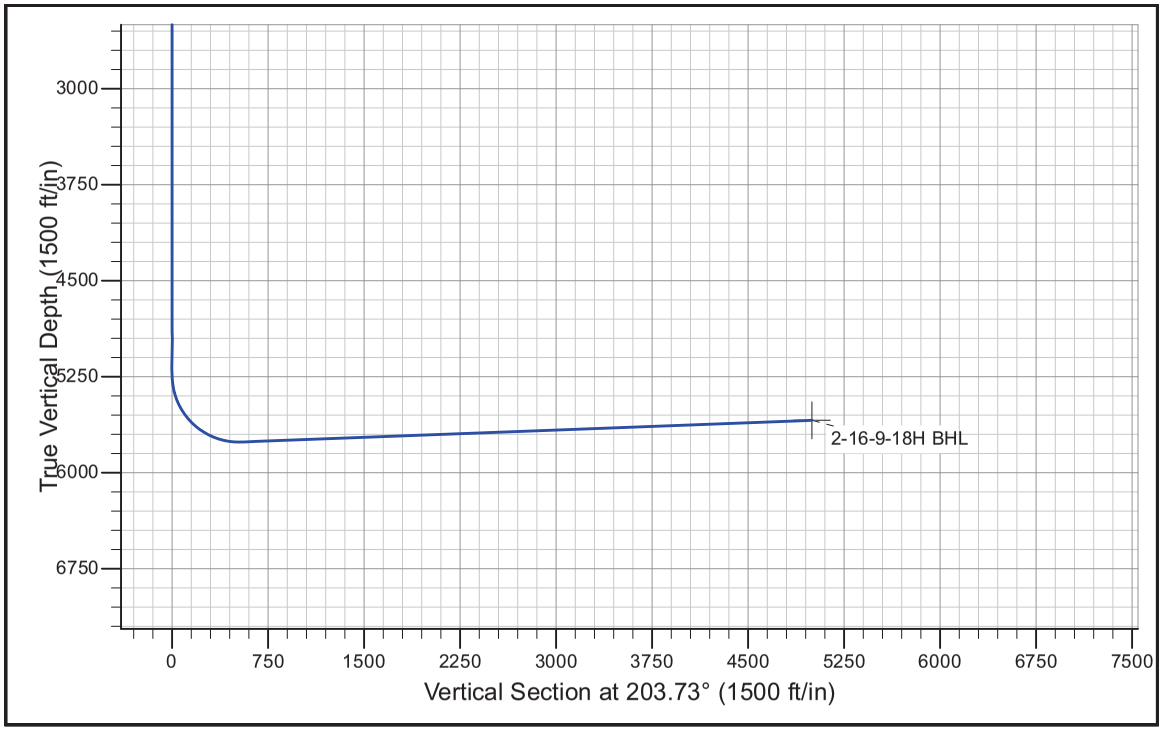
Newfield Production Company

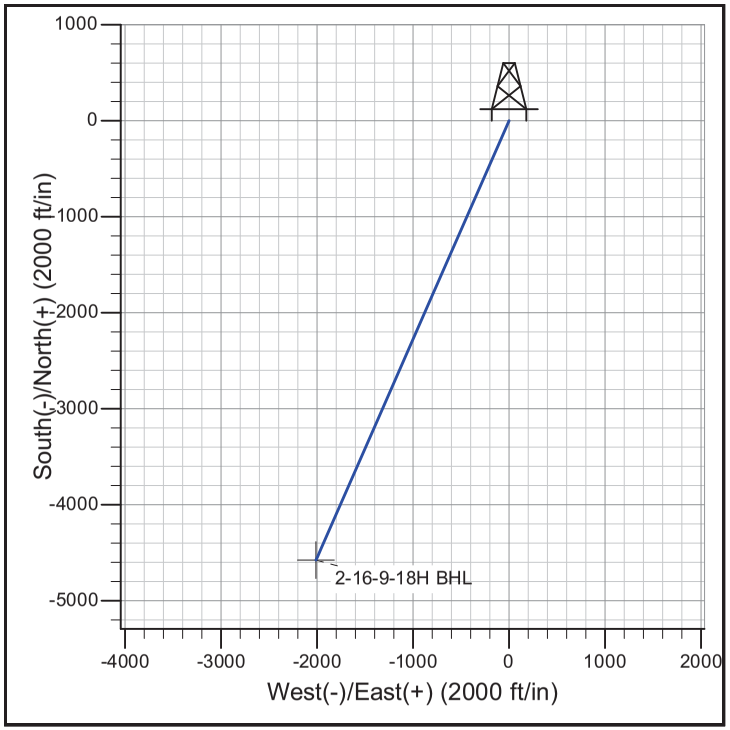
Project: Uinta Basin
Site: GMBU 2-16-9-18H
Well: GMBU 2-16-9-18H
Wellbore: Wellbore #1
Design: Design #1



Azimuths to True North
Magnetic North: 11.19°

Magnetic Field
Strength: 52307.7snT
Dip Angle: 65.83°
Date: 9/12/2011
Model: IGRF200510





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5240.0	0.00	0.00	5240.0	0.0	0.0	0.00	0.00	0.0	
3	6077.9	92.18	203.73	5760.5	-495.0	-217.5	11.00	203.73	540.7	
4	10538.8	92.18	203.73	5591.0	-4575.8	-2011.2	0.00	0.00	4998.3	2-16-9-18H BHL

PROJECT DETAILS: Uinta Basin

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

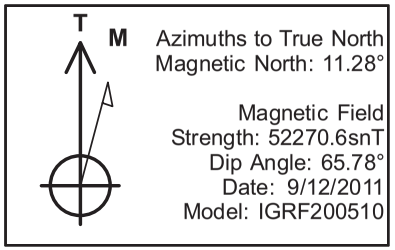
System Datum: Mean Sea Level

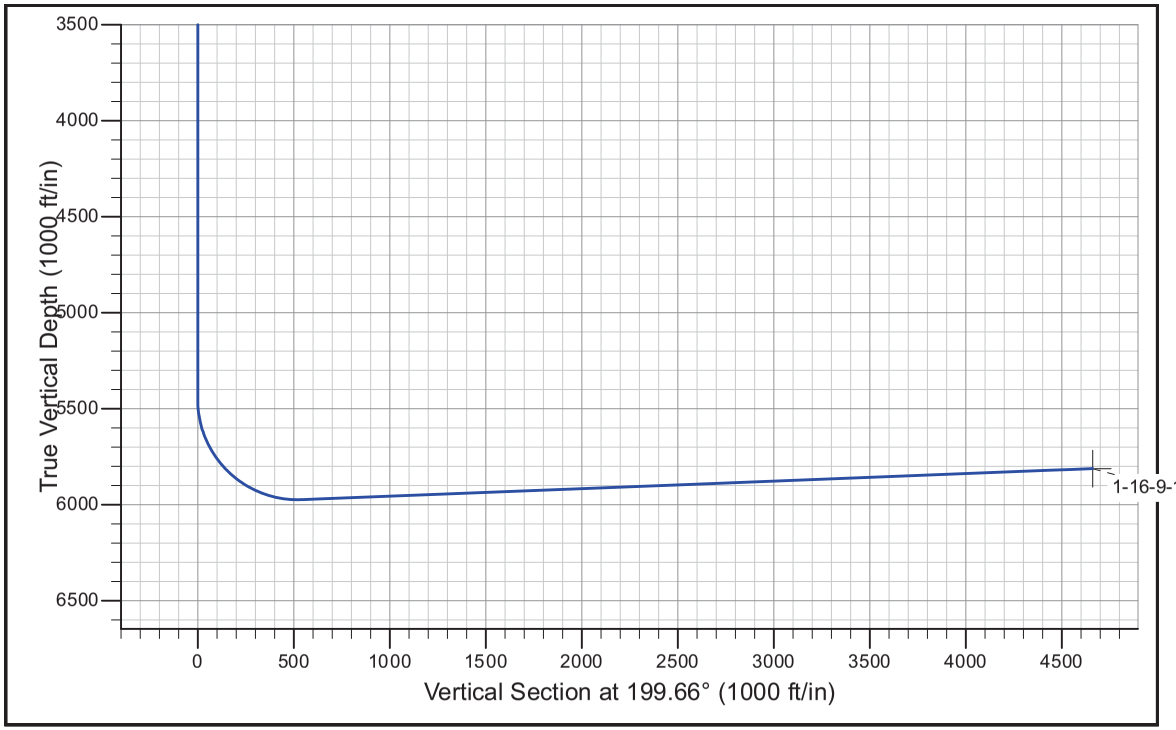
Received: September 20, 2011

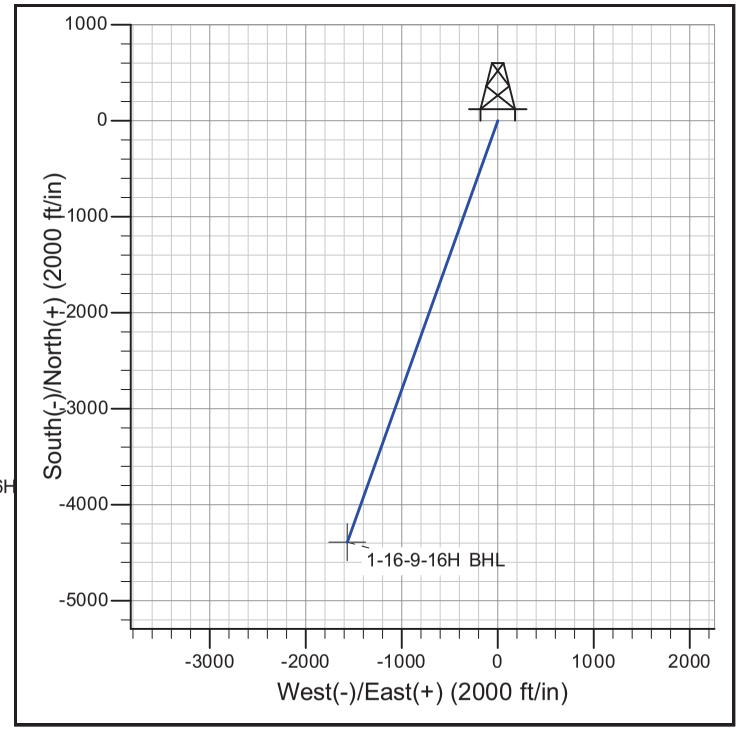
NEWFIELD
ROCKY MOUNTAINS

Newfield Production Company

Project: Uinta Basin
Site: GMBU 1-16-9-16H
Well: GMBU 1-16-9-16H
Wellbore: Wellbore #1
Design: Design #1







SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5453.4	0.00	0.00	5453.4	0.0	0.0	0.00	0.00	0.0	
3	6292.0	92.25	199.66	5973.9	-509.8	-182.1	11.00	199.66	541.3	
4	10415.0	92.25	199.66	5812.0	-4389.5	-1568.0	0.00	0.00	4661.1	1-16-9-16H BHL

PROJECT DETAILS: Uinta Basin

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

Received: September 20, 2011